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CLAIMS

What is claimed is:

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1. A sensing apparatus comprising a housing and sensing means, characterised in that the housing comprises a plurality of separable elements to which data acquired by the sensing means is transferred, and which are releasable, after data transfer, from the housing.

2. A sensing apparatus according to claim 1, wherein the sensing means includes or is connected to electronic memory means which temporarily stores the acquired data.

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- 3. A sensing apparatus according to claim or claim 2, wherein the sensing apparatus further comprises an actuable port means, openable to release the separable elements.
- 4. A sensing apparatus according to any of the preceding claims, wherein the separable elements each comprise a rigid casing with a sealable aperture, the casing surrounding data storage means in which the acquired data is stored for transfer to the surface.

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5. A sersing apparatus according to claim 4, wherein the sealable aperture is formed by an aperture surrounded by a sealing material, with the sealing material being heat treatable within the housing so as



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to provide a fluid-tight seal which is continuous with the casing surface.

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6. A sensing apparatus according to any of the preceding claims, wherein the separable elements are spherical.

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7. A sensing apparatus according to claim 6, wherein each separable element comprises two hollow metal hemi spheres, joined by a plastics seal to form a sphere.

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- 8. A sensing apparatus according to any of the preceding claims, wherein the housing of the sensing apparatus and casings of the separable elements are formed from plastics material or metal.
- A sensing apparatus according to any of the preceding claims, wherein the separable elements
 are configured to be either neutrally buoyant or buoyant, in relation to well fluids.
- 10. A sensing apparatus according to any of the preceding claims, wherein the separable elements
 25 have a diameter in the range of 1 to 10cm.
 - 11. A sensing apparatus according to any of the claims 1 to 9, wherein the separable elements have diameter in the range 1 to 5cm.

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12. A sensing apparatus according to any of the claims 1 to 11, wherein the data is encrypted prior to transfer to the separable elements.

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13. A method of acquiring data from downhole, comprising placing downhole a sensing apparatus containing a number of separable elements and releasing the elements to carry acquired data to the surface as required.

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14. Apparatus and method substantially as herein described with reference to, and as illustrated in, the accompanying drawings.